

In the Specification:

Please insert at Page 1, line 4, the following paragraph:

RELATED PATENT APPLICATION

This application is a National Phase Application of PCT/IL03/00292 having International Filing Date of 7 April 2003, which claims priority from Israel Patent Application No. 149016 filed 7 April 2002.

Please amend the paragraph beginning at line 24, page 49, as follows:

By implementing each of the four alternative specific configurations 10A, 10B, 10C, and 10D, illustrated in FIGS. 1A, 1B, 1C, and 1D, respectively, of the generalized preferred embodiment of the hyper-spectral imaging system 10 of the present invention, there is analyzing a plurality of synthesized hyper-spectral (cube) images, formed according to previous **Step (i)**, by applying one or more image analysis algorithms, ~~to~~ via central programming and control/data/information signal processing unit (CPPU) 38.

Please amend the paragraph beginning at line 15, page 49, as follows:

For implementing each of the four alternative specific configurations 10A, 10B, 10C, and 10D, illustrated in FIGS. 1A, 1B, 1C, and 1D, respectively, of the generalized preferred embodiment of the hyper-spectral imaging system 10 of the present invention, there is displaying, via display device 40, either singly or in combination: the recorded interference images obtained in **Step (d)**, the plurality of improved quality recorded interference images obtained in **Step (e)**, the plurality of interferogram images obtained in **Step (f)**, the plurality of improved quality interferogram images obtained in **Step (g)**, the plurality of phase corrected improved quality interferogram images obtained in **Step (h)**, the plurality of synthesized hyper-spectral (cube) images obtained in **Step (i)**, and the results of the analysis of the synthesized plurality of hyper-spectral (cube) images obtained in **Step (j)**.